

This application is a continuation of U.S. Patent Application No. 10/202,991, filed 07/25/2002, which is a continuation of U.S. Patent Application Serial No. 09/556,042, filed April 21, 2000, now issued Patent No. 6,440,126 B1, issued August 27, 2002, which claims priority from United States Provisional Patent Application Serial No. 60/130,538, filed April 21, 1999, all of which are incorporated herein by reference.

IN THE CLAIMS

Please add new Claims 33-43 as follows:

33. A catheter system comprising:
a handle portion having a proximal end, a distal end, a first fluid flow path, and a second fluid flow path;
a flexible catheter having a proximal end, a distal end, a first fluid flow path, and a second fluid flow path, wherein the first fluid flow path of the flexible catheter is in fluid communication with the first fluid flow path of the handle portion and the second fluid flow path of the flexible catheter is in fluid communication with the second fluid flow path of the handle portion; and
a pressure sensor in communication with one of the first and second fluid flow paths.
34. The catheter system of claim 33, further comprising a source of fluid in communication with one of the first and second fluid flow paths.
35. The catheter system of claim 34, wherein the source of fluid is responsive to the pressure sensor.
36. The catheter system of claim 35, wherein the pressure sensor is operative to terminate fluid flow upon detection of a change in pressure.
37. The catheter system of claim 34, wherein fluid in the first fluid path is under positive pressure and fluid in the second fluid path is under reduced pressure.

38. The catheter system of claim 34, wherein the pressure sensor is operative to detect a fluid leak in the catheter system.

39. The catheter system of claim 34, wherein the pressure sensor is operative to detect a fluid leak in the flexible catheter.

40. The catheter system of claim 34, wherein the pressure sensor is operative to detect a fluid leak in the handle portion.

41. A catheter system comprising:
a flexible catheter having a proximal end, a distal end, a first fluid flow path, and a second fluid flow path;
a pressure sensor in communication with one of the first and second fluid flow paths; and
a source of fluid refrigerant in communication with one of the first and second fluid flow paths,
wherein the pressure sensor is operative to terminate fluid flow upon detection of a change in pressure.

42. The catheter system of claim 41, wherein fluid in the first fluid path is under positive pressure and fluid in the second fluid path is under reduced pressure.

43. The catheter system of claim 42, wherein the pressure sensor is operative to detect a fluid leak in the flexible catheter.

Please cancel Claims 13-32 without prejudice and without disclaimer of subject matter.